



**Autex  
Acoustics®**

# Frontier™ Acoustic Raft

# Manufacturers Guarantee

Frontier™ Acoustic Raft is manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under an ISO 9001 certified Quality Management System. The product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

## Panel fixing system patent

US Patent 10,113,312

## Specification

<b>Product Name</b>	Frontier™ Acoustic Raft
<b>Description</b>	100% polyester complete modular acoustic raft
	<b>Imperial</b>
<b>Fin Length</b>	94.5"
<b>Tolerance</b>	(+/-0.02")
<b>Thickness</b>	1/2"
<b>Tolerance</b>	(+/-6%)
<b>Weight</b>	7.5oz/ft2

## Physical Description / Properties

<b>Boiling Point</b>	N/A
<b>Melting Point:</b>	482°F
<b>Vapor Pressure:</b>	N/A
<b>Specific Gravity:</b>	Polyester 1.38
<b>Flash point:</b>	N/A
<b>Explosive limits:</b>	N/A
<b>Solubility in water</b>	Not soluble
<b>Alkalinity:</b>	pH 7.8
<b>Relative Vapor Density:</b>	N/A

## Acoustic Performance

Frontier Acoustic Raft is specifically designed to reduce and control reverberated noise (echo) in building interiors.

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● <b>Frontier™ Raft 1/2" Trapezoid</b> (8" off ceiling @ 12" centers)	0.25	0.65	0.85	1.05	1.15	1.15	0.95
● <b>Frontier™ Raft 1/2" Blade</b> (8" off ceiling @ 12" centers)	0.20	0.35	0.60	1.00	1.25	1.25	0.80
● <b>Frontier™ Raft 1/2" Beam 100</b> (8" off ceiling @ 6" centers)	0.05	0.25	0.55	0.95	1.15	1.20	0.75
● <b>Frontier™ Raft 1/2" Beam 250</b> (8" off ceiling @ 12" centers)	0.20	0.45	0.70	1.10	1.35	1.30	0.90



## Service

For further information about Frontier Acoustic Raft, Autex Cube™ or any other Autex product, please contact your Autex account manager or visit our website.

## Care and Maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

## Product Specifications

### Composition

100% Polyester Fiber from polyethylene terephthalate (PET). Made from Autex Cube™ contains a minimum of 60% previously recycled polyester fiber.

### Suitable applications

Suspended or direct fix with patented aluminium channels and connector clips.

### Fire Rating

Frontier™ is a value-added product made from Autex Cube™ as the base material. Cube™ has been evaluated using the following test methods:

### ISO 9705: 1993

Classification: Group 1-S  
Smoke Production Rate:  
<5.0m<sup>2</sup>/s  
As required by NZBC C/VM2

### AS ISO 9705 - 2003

Classification: Group 1  
(SMOGR<sub>ARC</sub>): <100m<sup>2</sup>/s<sup>2</sup>  
Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637.1:2015, as required by BCA Specification C1.10-4  
FI 4974  
FAR 4055

### BS EN 13501-1:2018

Wall applications  
Classification: B-s<sub>2</sub>d0  
(Cube™ 1/2")

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011.EUI-20-000268-A

### Ceiling applications

Classification: B-s<sub>2</sub>d0  
(Cube™ 1/2")

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014.  
EUI-20-000268-B

### ASTM E-84-15a

Class A, FS:0 - SD:45  
(Cube™ 1/2")  
RJ4479-2

Class A, FS:0 - SD:65  
(Cube™ 1")  
RJ4479-1

### VOC Emissions

Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered as a low VOC product.VOC concentration: 0.009 mg/m<sup>3</sup> (7 days).

### Water Vapor Sorption

ASTM C1104 / C1104M-13a Test conditions: 49°C, 95%RH Water vapor absorbed and adsorped after 4 days: 0.4% by weight.

### Microbial Resistance

ASTM G21-15 Growth Rating: 0 (No growth) Frontier™ does not promote the growth of mold and mildew.

### Color Fastness to Light

Frontier™ is suitable for indoor use only. Light fastness is dependent on use and exposure. Frontier has been evaluated to the following standard:  
ISO 105-B02:2014  
Rating: 6 (Highest = 7)

### Color Fastness to Rubbing

ISO 105-X12:2016  
Dry Rating: 4-5 (Highest = 5)  
Wet Rating: 4-5 (Highest = 5)

### Pattern Repeat

Non-woven. No pattern repeat but product has directional grain. Product may vary from samples and batch to batch due to fibre

blending and lay-up which is an inherent feature of this product.

### Fabric Care

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and excessive amounts of water as this will affect the finish. Use carpet or upholstery shampoo as directed. Blot with a clean dry cloth after each application of solution.

Custom printed Cube require the services of a specialist cleaning company. Refer to the Frontier Cleaning and Maintenance Guide for more information

### Finish

Frontier Acoustic Raft does not have a pattern repeat, but it does have a directional grain. The product may vary from samples and batch to batch due to fiber blending and lay-up, which is an inherent feature of this product.

## Environmental

Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.

Autex Frontier contains a minimum of 45% recycled polyester fiber (from PET bottle-flake). Off-cuts and manufacturing waste is re-used or recycled wherever possible.

Autex Frontier is manufactured from 100% polyester fibres and do not contain formaldehyde binders. Autex polyester fibres support safer indoor air quality and will not become a potential airborne pollutant.

### ● Autex Industries Ltd

702-718 Rosebank Rd  
Private Bag 19988  
Avondale 1746, Auckland  
New Zealand  
Freephone 0800 428 839  
Phone +64 9 828 9179  
Fax +64 9 828 5810

### ● Autex Australia Pty Ltd

166 Bamfield Road  
PO Box 5099  
West Heidelberg, Melbourne  
VIC 3081, Australia  
Freephone 1800 678 160  
Phone +61 3 9457 6700  
Fax +61 3 9457 1020

### ● Autex Acoustics Ltd

Unit J4, Lowfields Way,  
Lowfields Business Park,  
Elland, West Yorkshire  
Hx5 9Da  
United Kingdom  
Phone +44 0 1422418899

### ● Autex Acoustics LLC

1630 Dan Kipper Dr,  
Riverside, CA 92507  
United States of America  
Phone +1 424 203 1813

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